



Navy Data Environment (NDE)

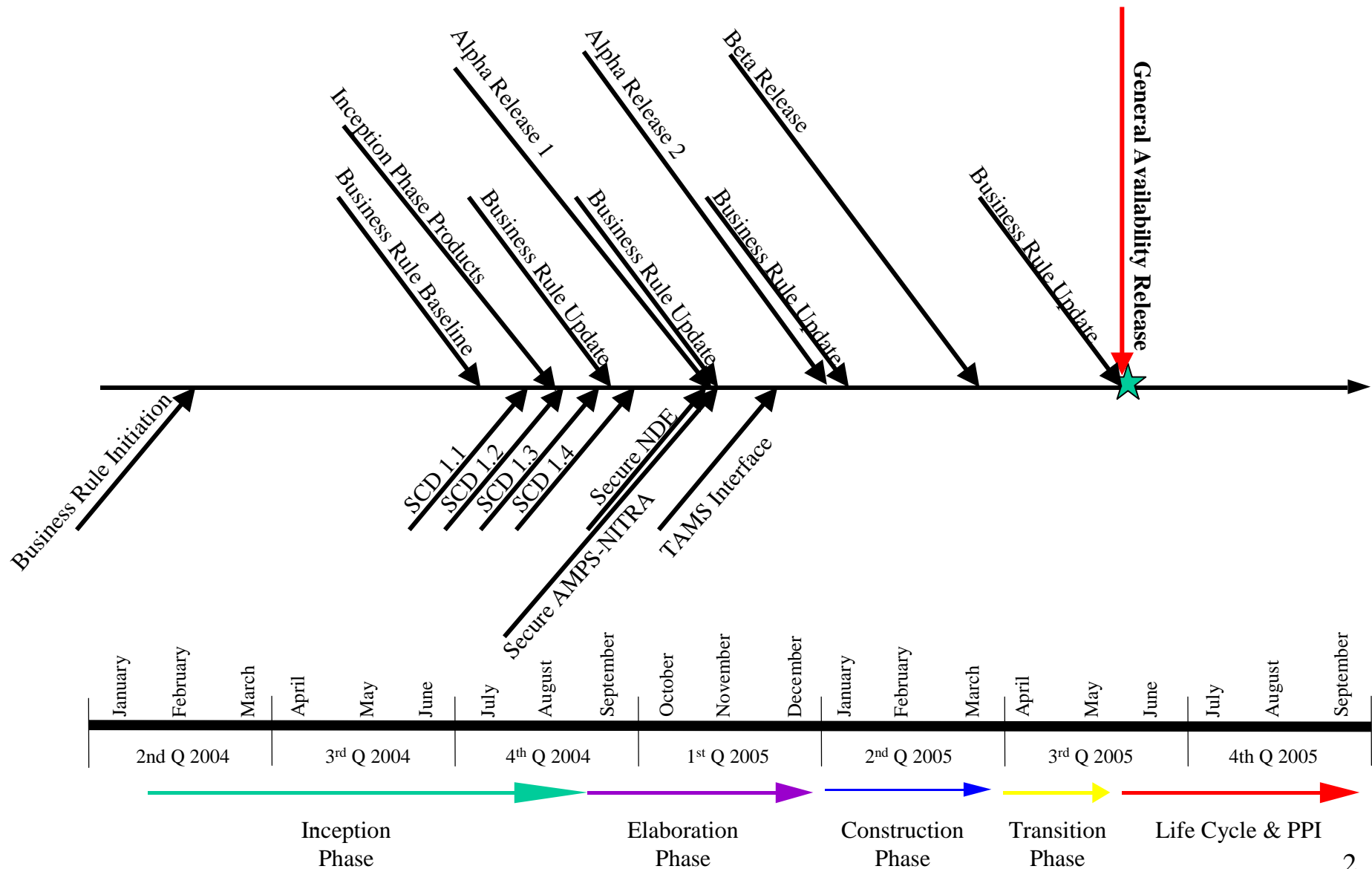
Navy Modernization (NM)

SHIPMAIN Entitled Process

Program Review # 3

September 2004

# NDE NM Entitled Process Time Line



# Navy Modernization State

## Legend

ELLIPSE = Multi-purpose and Multi-Application system

NDE = Navy Data Environment

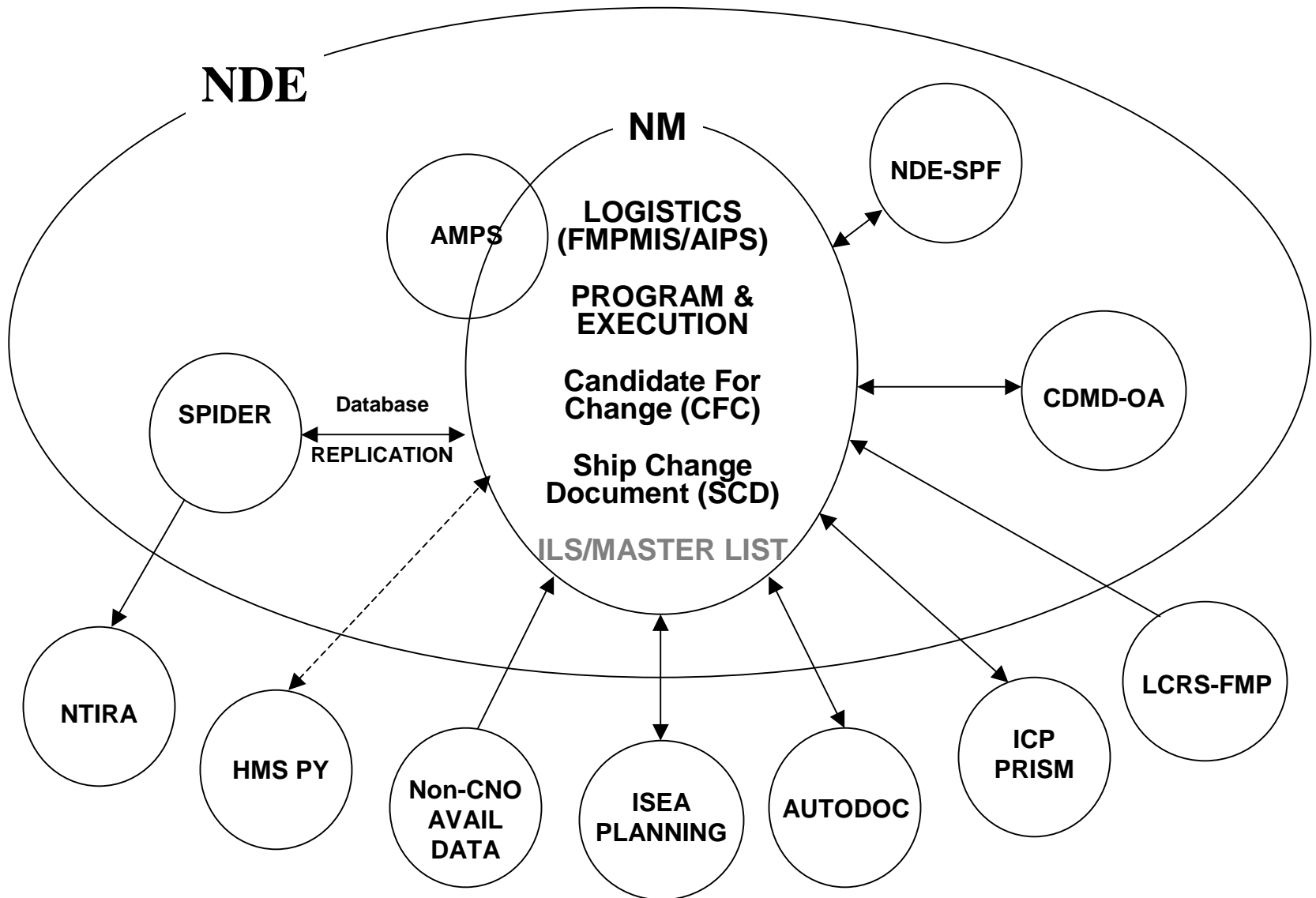
NM = Navy Modernization

----- = Planned Interface

———— = Existing Interface

⊖ = Shared Database – Not entirely NM

■ = Planned Future Element



# **SHIP CHANGE DOCUMENT (1 OF 2)**

## **SCD – Release 1.2**

	<b><u>SCHED.</u></b>	<b><u>REVISED</u></b>	<b><u>ACTUAL</u></b>
AFOM Spreadsheet	8/5/04		8/5/04
CBA Spreadsheets - Phases II & IIa	8/5/04		8/5/04
Creation of AUTOSIR Process	8/5/04		8/5/04
Security Enhancements (Roles)	8/7/04		8/7/04
Initial RCP Development	8/8/04		8/9/04
Release to Test/Testing	8/25/04		8/25/04
Release to Production	8/26/04		8/26/04

## **SCD – Release 1.3**

Assign of Additional Roles (Workflow Mgmt.)	8/19/04	8/31/04	8/31/04
Revised SCD Export	8/20/04		8/20/04
AUTOSIR Process available online	8/20/04		8/20/04
RCP Expanded Format	8/23/04		8/23/04
SCD Phase III Entry Forms	8/25/04		8/25/04
Allow for POC (TYCOM, PARM, TECH) requests	9/01/04		9/01/04
Release to Test/Testing	9/01/04		9/01/04
Release to Production	9/02/04	9/03/04	9/03/04

# SHIP CHANGE DOCUMENT (2 OF 2)

## SCD – Release 1.4

	<u>SCHED.</u>	REVISED	<u>ACTUAL</u>
Enhance Email Notification Processes	9/09/04	9/16/04	
SCD Status - Pull-downs by Phase	9/15/04		On target
Add Sponsor Role / RCP Functionality	9/20/04		On target
AFOM Admin. Capability	9/20/04		On target
Enhance some Filtering capabilities (e.g. Browse by Class, Ship)	9/24/04		On target
Switch to new POC Pick Lists (TYCOM, PARM, TECH)	9/24/04		Planned *
Release to Test/Testing	9/28/04		On target
Release to Production	10/01/04		On target

Note: \* Timing of this action is conditional upon the number of received requests, from users entering SCDs, for individuals identified as needing to be added to the three Pick Lists.

# **SHIP CHANGE DOCUMENT**

- **Business Process Changes**
  - SCD is Prototype – Requirements change on a routine basis
- **Resources**
  - Resources sufficient for approved SCD requirements development
- **Funding to Complete**
  - Funding provided
- **Risks**
  - Detailed requirements and associated documentation, still evolving
- **Critical Path**
  - Timely identification of TYCOM, PARM, & Technical POCs and population of appropriate SCD Pick Lists (need to convert over from existing Pick lists)
- **Risk Mitigation**
  - Working with SHIPMAIN Team Leads weekly on changing requirements

# Secure NDE-NM Environment

## Establish Secure Operations

	<u>SCHED</u>	<u>REVISED</u>	<u>ACTUAL</u>
Submit RFS to DISA	3/17/04	3/17/04	3/17/04
Build secure area	3/26/04	4/22/04	4/22/04
Obtain Security Approval for physical space	4/9/04	5/07/04	5/7/04
Obtain SIPRNET Connection	7/23/04	9/22/04	At Risk
Develop SOP, Risk, Security Documentation	7/02/04	10/08/04	Caution
Receive SIPRNET Approval	7/2/04	11/05/04	Caution
Modify Un-Class Application for Class	7/2/04	9/24/03	On target
Hardware/Software (Procure/Install/Conf.)	8/2/04	9/30/04	On target
Cross Domain Capability - Auto Info.Transfer	9/30/04	10/29/04	Caution
Operational	8/2/04	11/26/04	Caution
Secure AMPS - NITRA Interface (2-way)	8/6/04	10/29/04	Caution
TAMS Interface	9/10/04	11/26/04	Caution

Notes: \* Recent postponement of installation. Delays some succeeding events

# **Secure NDE-NM Environment**

- **Business Process Changes**
  - None
- **Resources**
  - Programmers in place
  - HW still being delivered/installed
- **Funding to Complete**
  - Funding provided
- **Risks**
  - Sequential series of events – impacts on other events
  - DISA SIPRNET approval timeframe (standard advertised as 150 days)
  - Cannot start operations until approvals are in place.
- **Critical Path**
  - Installation of SIPRNET line / CRYPTO gear (Delayed till 9/22)
  - Security Accreditation
  - DISA approval
- **Risk Mitigation**
  - Apply sufficient/focused project management attention to facilitate movement through DISA process



# **Overall Entitled Process Integration**

- Must have a sound transition plan
  - Items to be considered:
    - Moving Candidate for Change (CFCs) & SCDs to real Alterations
    - Processing of existing approved (Legacy) Alterations in NDE-NM
    - Modification needed to Legacy Applications (e.g. Alt Identifier change)
    - Impacts on existing Business Rules for processing current Alterations types (e.g. ORDALTS, SHIPALTS, ECs, FCs)
    - Impacts on existing Legacy Application Process flows (Funding, Execution, Material, etc.)

# Software Development

	<u>Orig</u>	<u>PR 3</u>	<u>ACTUAL</u>
• <b>Inception Phase</b>			
• Entitled Process Business Rule Baseline	7/7/04	7/7/04	7/7/04
• Inception Phase Product Delivery	8/13/04	8/13/04	8/13/04
• Entitled Process Business Rule Baseline Update	8/13/04	8/13/04	8/13/04
• Navy Approval of Inception Phase Products	9/1/04	9/1/04	9/1/04
• <b>Elaboration Phase</b>			
• Iteration 1 Ends	10/4/04	10/4/04	On Target
• Alpha Release 1 (new entry)	11/08/04	11/08/04	At Risk
• Iteration 2 (Elaboration Phase) Product Delivery	11/29/04	11/29/04	On Target
• Entitled Process Business Rule Update	11/29/04	11/29/04	On Target
• Navy Approval of Elaboration Phase Products	12/13/04	12/13/04	On Target
• <b>Construction Phase</b>			
• Iteration 3	1/3/05	1/3/05	Caution
• Iteration 3 (Construction Phase) Product Delivery	1/17/05	1/17/05	On Target
• Alpha Release 2 (new entry)	1/10/05	1/10/05	At Risk
• Beta Release	3/21/05	2/28/05	At Risk
• <b>Transition Phase</b>			
• General Availability Release	5/2/05	4/11/05	At Risk
• Entitled Process Business Rule Update	5/2/05	4/11/05	Caution

# Software Development

- The following metrics will regularly be reported

	Metric	Current Value	Inception Phase	Elaboration Phase	Construction Phase	Transition Phase
Requirements	Number of Use Cases	13	13	40/5	40/5	40/5
	Number of Supplemental Requirements	59	59	65	70	80
	Changed Requirements Percentage	0	NA	75	50	10
	Use Case Completeness	0	NA	40	80	100
	Supplemental Requirement Completeness	0	NA	50	80	100
Design	Number of Classes	0	0	20	30	40
	Number of Operations	0	0	100	150	200
	Design Completeness	0	0	40	90	100
	Implementation Completeness	0	0	30	80	100
Testing	Number of Test Cases	0	0	15	20	25
	Number of New Defects	0	0	70	45	20
	Number of Defects Resolved	0	0	30	50	55
	System Completeness (Test Pass)	0	0	40	80	100
<b>Cost (Actual vs Projected)</b>		Projected vs Actual Chart				

Note 1: Number of Use Cases indicates the total number of Use Cases identified to address the entire Entitled Process Business Rule Set and the number of Use Cases to be defined in detail and instantiated in software within this project.

Note 2: Other metrics are based on only those Use Cases which are defined in detail.

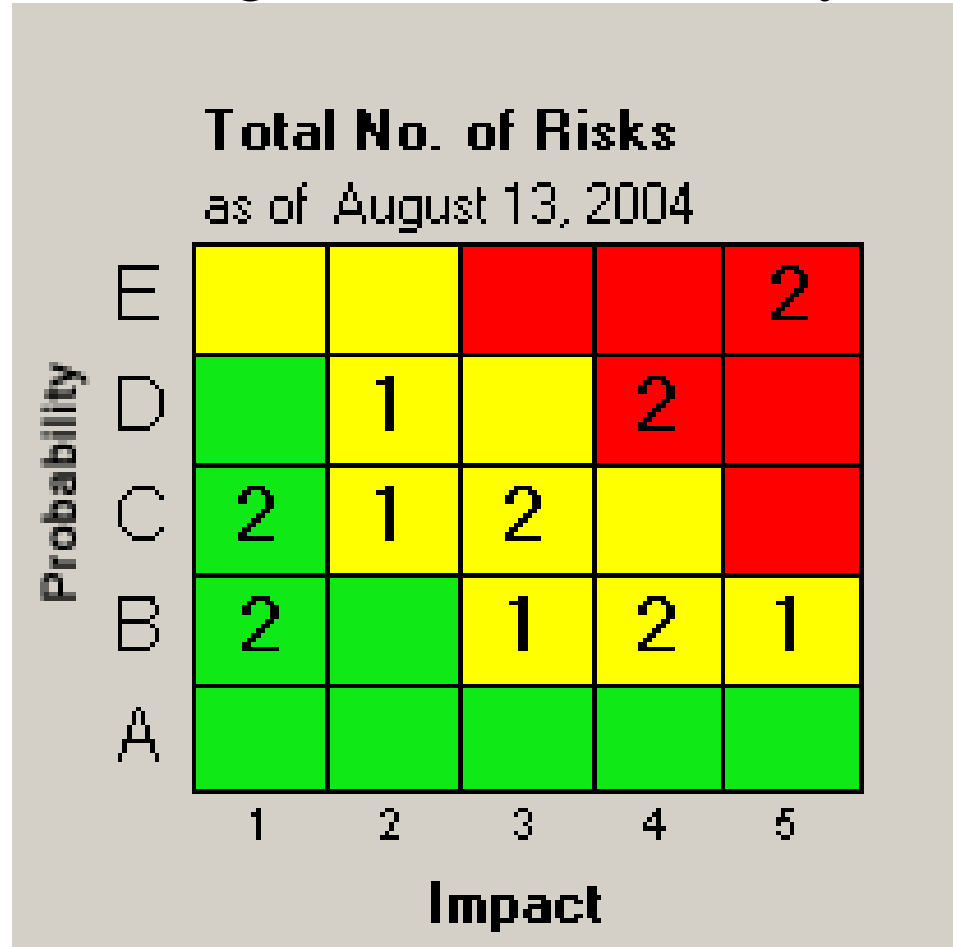
# Software Development

- All identified risks

Title	Probability	Impact	Level
Requirements creep	E	5	H
Extended use of the Manual Entitled process	E	5	H
Classified software development	D	4	H
Incomplete business model and rules	D	4	H
Mixing new development & SW Maintenance at NSLC	C	3	M
Financial management-related requirements	B	5	M
AFOM Model practicality	C	3	M
Weak overall line of project authority	D	2	M
AFOM model accuracy	B	4	M
RUP and IBM Rational tools unfamiliarity	B	4	M
Intro of new COTS/GOTS to production environment	C	2	M
Data communications capacity	B	3	M
Resistance to business process change	C	1	L
Reviews not realized on time	C	1	L
Distributed team	B	1	L
NDE production environment	B	1	L

# Software Development

- The following Risks are currently being managed



# **Software Development**

- **Entitled Process Definition**

- Need to establish baseline and configuration control on Business Rules
  - Collected e-mail and other documented change requests to Interim SCD
  - BRTs establishing “rules” outside Business Rule “Baseline” – Need to obtain BRT Outbriefs
- Need to define all Business Rules which drive software to be developed
- Need to promptly adjudicate Business Rule Issues – SMEs are working to do so
- Need to validate that automation estimates comply with Stakeholders’ expectations
  - SCD Submitter “will” check if SCD could be re-submitted or combined with current SCD – How much automation?

- **Resources**

- Resource limitations may minimize final product – need to re-allocate or obtain additional funding
- Inception Phase Products will be the basis for a Scope and Funding Re-Baseline – Options Paper complete with budgets associated with each of four options

- **Funding to Complete**

- Funding provided or in process
- Additional funding requirements dependent upon option selected

- **Risks**

- Requirements Creep
- Incomplete business model and rules
- Extended use of Entitled process
- Classified software development

# Software Development

- **Critical Path**

- **Entitled Process Definition**

- Still in flux, coming into better focus and under configuration control but still not there

- **Inception Phase Product Completion / Acceptance**

- Delivered on August 13
    - Inception Phase products are approved and this phase is over

- **Elaboration Phase Product Completion / Acceptance Iteration 1 (Iteration 2)**

- Need overall SHIPMAIN, Entitled Process, and software Scope defined
    - Elaboration Phase activities have begun
    - Elaboration Phase activities may need to be re-directed upon Option selection

- **Construction Phase Product Completion / Acceptance Iteration 3 (Iteration 4)**

- None

- **Transition Phase Product Completion / Acceptance - General Availability Release**

- None

# Software Development

- **Critical Path (cont) - Risk Mitigation**

- **Requirements Creep**

- Use a requirements management process that will ensure that the impact of a change is fully understood prior to including it in the scope.
      - » Process plan approved
    - Use CM Process
      - » Process approved, baselines will be established

- **Extended use of Entitled process**

- Deliver incremental functionality through multiple releases allowing earlier transition from the manual process.
      - » Part of Software Development Plan
    - Leverage use of SCD module in the development of SCD data fields used in oracle database
      - » Surveying current assets to determine re-use and lessons learned opportunities

- **Incomplete business model and rules**

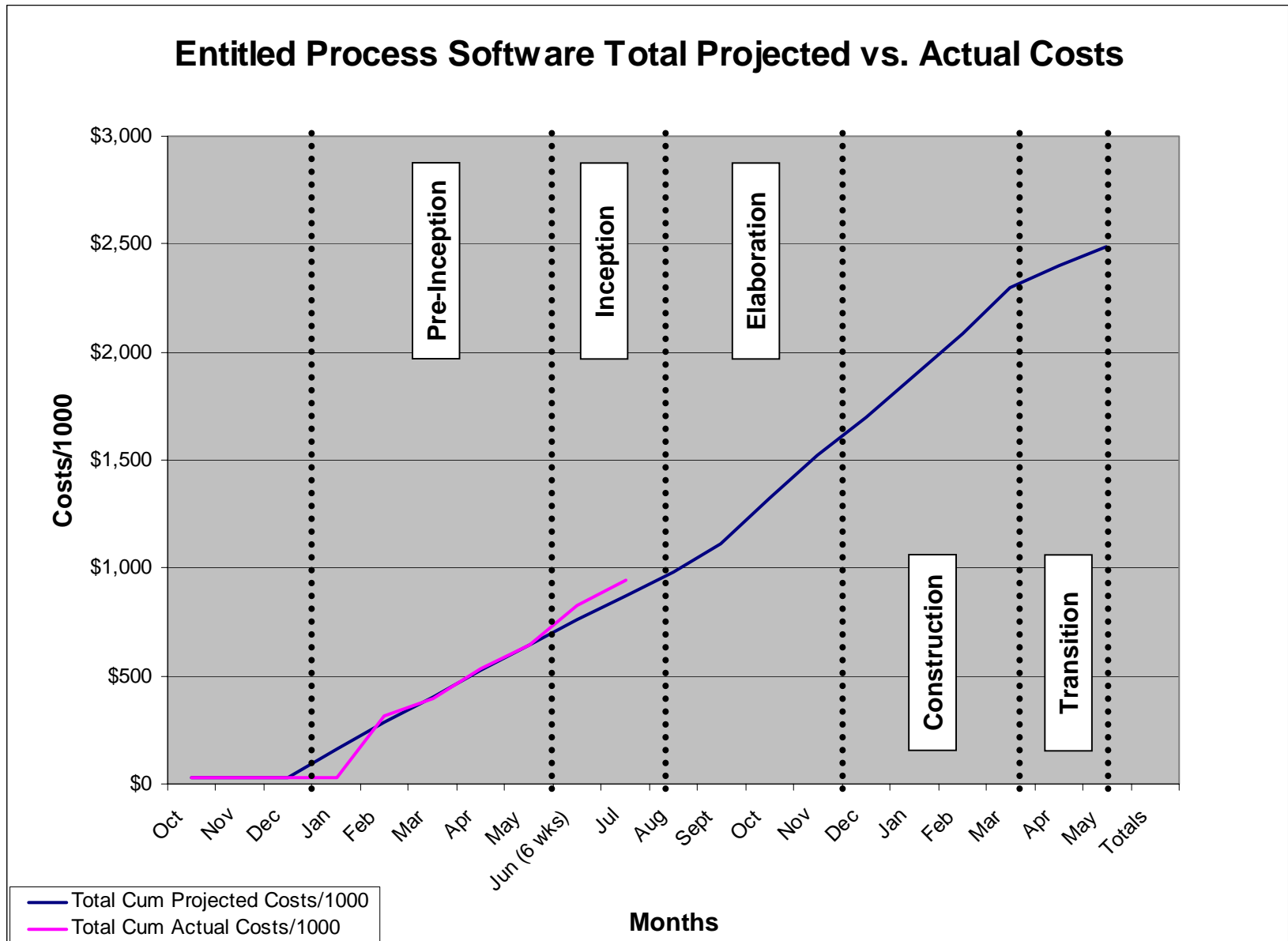
- Clearly define Scope of software development and determine iterative software development approach. Then provide appropriate funding and schedule to meet development approach.
      - » Business Rule definitions and issue adjudication are progressing, although slowly
      - » Funding decisions are TBD

- **Classified software development**

- Follow DITSCAP development processes in each phase
      - » In software development process
    - Develop an software architecture to accommodate both classified and unclassified FMP elements.
      - » Classification included as software “Feature”
    - Determine classification implications and include in Software Development Plan
      - » Plan complete and approved, currently investigating classification implications



# Entitled Process Cost - Total



# NDE-NM Entitled Process Summary

## Functional Area

## Level of Confidence

- **Short Term Entitled Process**

- **Ship Change Document**

– Release 1.1	July 22, 2004	Complete
– Release 1.2	August 26, 2004	Complete
– Release 1.3	Sept 3, 2004	Complete
– Release 1.4	Oct 10, 2004	<b>HIGH</b>

- **Short Term Entitled Process**

- **Secure NDE-NM Environment**

– Operational	Nov 26, 2004	<b>MEDIUM</b>
– Secure AMPS – NITRA (2-way)	Oct 29, 2004	<b>MEDIUM</b>
– TAMS Interface	Nov 26, 2004	<b>MEDIUM</b>

- **Long Term Entitled Process**

- **Software Development**

– Inception Phase	Aug 13, 2004	Complete & Approved
– Elaboration Phase	Nov 29, 2004	<b>MEDIUM</b>
– Construction Phase	Mar 21, 2005	<b>MEDIUM</b>
– Transition phase	May 2, 2005	<b>MEDIUM</b>

# NDE NM Entitled Process Action Items

## NAVY DATA ENVIRONMENT- NAVY MODERNIZATION (NDE-NM) PROGRAM REVIEW MEETING ACTION ITEMS, What, Who, & When (W3's)

W3's NDE Program Review Board Meeting 18 August 2004

Item No.	What	Who	When	Status Report
2-1	Update Navy Modernization State Diagram in Program Review #2 presentation.	Pat Turner (NSLC)	13 Sep 04	<b>Completed.</b> Straw-man provided for review in preparation for Program Review.
2-2	Reword SCD Slide (Release 1.2) in Program Review #2, "Creation Entitled Process CCB."	Pat Turner (NSLC)	13 Sep 04	<b>Completed.</b> Reworded to read: Creation of AUTOSIR Process – (Automated System Improvement Request)
2-3	Update SCD slide and show significant milestones and report any "Risk to Schedule" and "Risk to Cost."	Pat Turner (NSLC)	13 Sep 04	<b>Completed.</b> Updated SCD slides will reflect milestones and report any risk to schedule and cost.
2-4	a. Add validation date for Inception Phase. b. Add "predicted values" for each metric for the 4 phases listed on the Metrics Slide.	Bill Mick (ASC)	13 Sep 04	<b>Completed.</b> Requested slides have been updated to reflect feedback from 18 August 04 NDE Program Review.
2-5	Provide example of metrics that SPAWAR gathered on successful software programs.	Dave Smith (SPAWAR)	13 Sep 04	<b>NO STATUS</b>

# NDE NM Entitled Process Action Items (Continued)

W3's NDE Program Review Board Meeting14 July 2004

Item No.	What	Who	When	Status Report
1-1	Resolve discrepancies identified in the Functional Allocation brief to cement PEO C4I commitment to fund the balance. Working group to be identified and led by Mr. Billy Douglas to determine: 1) specific data elements to be captured; 2) what is the authoritative source for these data elements; 3) where will these data elements be stored.	Billy Douglas (NAVSEA)	TBD	<b>Action Extended.</b> Due date to be determined.

W3's Software Requirements Review Board Meeting 27 May 2004

Item No.	What	Who	When	Status Report
S-1	Reach agreement on authoritative database (NDE) including transition plan.	Patrick Haney (NAVSEA)	01 Oct 04	<b>NO STATUS REQUIRED</b>

# BACKUP SLIDES

## SHIP CHANGE DOCUMENT (SCD)

Electronic Automated System  
Improvement Request (AUTOSIR)  
Process



## News & Messages

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## Pending Ship Change Documents

PHASE I Change Tracking Number 27 (HFIP Gateway System TEMPALT) is under TAT-review. It is waiting to be completed and submitted to the SPM-review.

PHASE I Change Tracking Number 45 (Upgrade Ship's Laundry) is under TAT-review. It is waiting to be completed and submitted to the SPM-review.

PHASE I Change Tracking Number 54 (Upgrade N3/N31 Office) is under TAT-review. It is waiting to be completed and submitted to the SPM-review.

PHASE I Change Tracking Number 55 (Accoustic Communications (ACOMMS)) is under TAT-review. It is waiting to be completed and submitted to the SPM-review.

PHASE I Change Tracking Number 60 (Installation of the P53C Mine Detection Sonar System Mod) is under TAT-review. It is waiting to be completed and submitted to the SPM-review.

PHASE I Change Tracking Number 64 (Upgrade N3/N32 Office) is under TAT-review. It is waiting to be completed and submitted to the SPM-review.

PHASE I Change Tracking Number 65 (Upgrade EVW Equipment Room Heat Exchanger) is under TAT-review. It is waiting to be completed and submitted to the SPM-review.

## NDE ADD AUTOSIR

Save

Exit

*Adding new Autosir*

Subject:

Email Notification

Severity:

Serious

NDE Module:

=====

SCD

CBA Spreadsheet

☐ Bug Fix☒ Enhancement

Description:

Would like to have following individuals as "copy to" on email notifications sent to the AFOM Change Managers:

Mr.Roger Vandveer	LCDR Dave Graefen	LCDR Bill Miller
Mr.Art Mahony	LCDR Tim Haney	

Example:

☐ Check box if you have attachments to add



OMP: 7 FDBK: 1 NEW: 2 OPEN: 3 (Crt: 2)

<input checked="" type="checkbox"/> ID	<input checked="" type="checkbox"/> Subject	<input checked="" type="checkbox"/> Update	<input checked="" type="checkbox"/> Owner	<input checked="" type="checkbox"/> Stat	<input checked="" type="checkbox"/> Sev	<input checked="" type="checkbox"/> B-E	<input checked="" type="checkbox"/> FT	<input checked="" type="checkbox"/> Est Dt	<input checked="" type="checkbox"/> Module	<input checked="" type="checkbox"/> Assn To	<input checked="" type="checkbox"/> Release
1	Modify SCD Tables and Column for new values	09-03-04	NGILMORE	COMP	Critical	E	N	07-23-04	SCD	K Baird	1.0.1
2	Create Export for SCD	08-24-04	NGILMORE	OPEN	Critical	E	N	07-29-04	SCD	K Brown	1.0.1
3	Modify & add tables and columns to SCD for Phase II	08-25-04	NGILMORE	COMP	Critical	E	N	07-30-04	SCD	K Baird	1.0.1
4	Correction to Privileges in SCD	08-25-04	NGILMORE	COMP	Critical	B	N	08-09-04	SCD	J Hutchinson	1.0.1
6	Adding SECNAV Waiver to SCD	08-23-04	NGILMORE	FDBK	null	E	N	09-18-04	SCD	P Lee	1.0.1
8	Additional Fields to the Database for SecNav and Signature	08-25-04	MMEHELIS	COMP	Medium	E	N	09-19-04	SCD	J Hutchinson	1.0.1
9	Change to the AFOM Number	09-03-04	MMEHELIS	COMP	Medium	B	N	09-20-04	SCD	K Baird	none
10	Modification to SCD e-mail notifications	08-24-04	NGILMORE	OPEN	null	B	N	08-08-04	SCD	K Brown	1.0.1
12	Modification to the SCD page	08-25-04	NGILMORE	OPEN	Critical	B	N	09-25-04	ENTITLE	P Lee	none
13	Modify SCD Tables and columns	09-02-04	NGILMORE	COMP	null	E	N	09-25-04	SCD	K Baird	1.0.3
14	Export function	08-30-04	DLAPOINTE	NEW	Medium	E	N	09-30-04	SCD	Unassigned	none
15	SCD/CBA Spreadsheet "Export" Button	09-02-04	PKAELIN	NEW	Medium	B	N	10-01-04	SCD	Unassigned	none
16	Test Autosir	09-02-04	PTURNER	COMP	Low	B	N	10-02-04	SCD	Unassigned	none



# ENTITLE Autosir Detail

Send->OPS

New

Print

Exit

Autosir: 15

Status: NEW

Source: RICHARD KAELIN

Phone: (502)364-6623

Email: richard.kaelin@navy.mil

## Detail

Hide

Answer

Reopen

Open

Complete

Cancel

Save

Subject: SCD/CBA Spreadsheet "Export" Butto

Severity: Medium

Opened: ☒ Original ☐ Reopened

OS Version:

Attachments: View Save As

Add Attachment: Browse... Send

Creation Date: 09/01/2004

Last Updater: MMEHELIS

Symptoms: What exactly is the "Export" button supposed to get me? I have selected it within both the SCD and CBA Spreadsheet modules and the screen changes as if something is going to happen. However, after several minutes of waiting the computer locks up and I have to restart the computer - a very time

Sub-Module: SCD

Type: ☒ Bug ☐ Enhancement

Work Around: ☒ None ☐ Easy ☐ Difficult

User Tested? : ☐ Yes ☒ No

Estimated Date: 10/01/2004 mm/dd/yyyy

Last Updated: 09/02/2004

Example: Specifically, I have attempted the "Export" function while working on SCDs/CBAs 58 and 61, for which I am a submitter.

## CCB Remarks

Hide

Save

Remarks:

Done



Internet

ALL	CC
Release	
0.1	
0.1	
0.1	
0.1	
0.1	
0.1	
0.1	
ne	
0.1	
ne	
0.3	
ne	
ne	
ne	

Developer Feedback

Hide

Feedback

Hold

Pend

Save

Assigned To: 

Unassigned

Problem Area: 

=====

Ready for Release: ☐

Priority: 

99

QA Tested? : ☐ Yes ☒ No

Dev Tested? : ☐ Yes ☒ No

Hours to Fix: 

0.00

 Hours to Test: 

0.00

Attachments: 

=====

View

Save As

Add attachment: 

Browse...

Send

Attached DCRs: 

=====

View

Review: 

9/2/04 MLM - called user to determine if they could download from NDE-NM (yes). Advised how he can print without export. Also told him to try and run the export over a break to see if the export eventually comes up. User has a work around, for now.

Solution:

Build Steps: 

=====

Edit

Lessons Learned: 

New